

NEW MEXICO APT STATUS REPORT

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I.1 STATISTICS: HOURS OF UP TIME

| Operational Statistics | | | | | | |
|------------------------|--------|------------|-------|---------|---------|------------|
| Month | Status | Total Time | | | | % of Total |
| | | Days | Hours | Minutes | Seconds | |
| December | Up | 31 | 0 | 0 | 0 | 100% |
| | Down | 0 | 0 | 0 | 0 | 0% |
| January | Up | 30 | 23 | 18 | 0 | 99.91% |
| | Down | 0 | 0 | 42 | 0 | 0.09% |
| February | Up | 28 | 0 | 0 | 0 | 100.00% |
| | Down | 0 | 0 | 0 | 0 | 0.00% |
| March | Up | 31 | 0 | 0 | 0 | 100.00% |
| | Down | 0 | 0 | 0 | 0 | 0.00% |
| April | Up | 29 | 23 | 34 | 50 | 99.95% |
| | Down | 0 | 0 | 25 | 10 | 0.05% |
| May | Up | 30 | 22 | 18 | 45 | 99.77% |
| | Down | 0 | 1 | 41 | 15 | 0.23% |
| Total | Up | 181 | 21 | 11 | 35 | 99.94% |
| | Down | 0 | 2 | 48 | 25 | 0.06% |

**I.2 CALIBRATION: DATES OF ALL CALIBRATIONS, EXTERNAL
AIR TEMP AT CALIBRATION**

| Calibration Record | | |
|---------------------------|----------------|-----------------------------|
| Month | Day | Air Temperature (°C) |
| December | none performed | |
| January | 20 | 12.40 |
| | 20 | 11.30 |
| February | 6 | 17.50 |
| | 18 | 11.50 |
| March | 2 | 16.40 |
| | 17 | 23.70 |
| April | 3 | 23.80 |
| | 17 | 15.40 |
| May | 1 | 27.60 |
| | 8 | 23.20 |
| | 26 | 30.00 |

I.3 CALIBRATION: DATES OF CRG CALIBRATIONS

| CRG Calibration Record | |
|-------------------------------|-------------|
| Month | Date |
| December | 7 |
| | 16 |
| | 19 |
| | 27 |
| January | 20 |
| February | 6 |
| | 18 |
| March | 2 |
| April | 3 |
| | 17 |
| May | 1 |
| | 26 |

I.4 SUN INTRUSION DATES

| March SUN INTRUSION DATES | |
|---------------------------|---------------|
| DATE | SATURATING? |
| 4 | no |
| 5 | no |
| 6 | 20 GHz only |
| 7 | Both channels |
| 8 | Both channels |
| 9 | no |
| 10 | no |

I.5 OPERATIONS CHANGES/PROBLEMS

1. FEED HORN CRACKED IN JANUARY - REPLACED WITH SPARE
2. APRIL 23 LOSS OF TIME DUE TO SITE-WIDE POWER GLITCH?
3. APRIL 28 HAD KEYBOARD HANG AND SYSTEM DID NOT RE-BOOT PROPERLY - LOST DATA
 - TIME ON REAL-TIME DISPLAY AND RUNNING GRAPH IS 3 TO 5 MINUTES DIFFERENT
 - WWV TIME IS USUALLY ONLY RECEIVED A FEW TIMES PER WEEK ACCORDING TO CTS-10 SOFTWARE
4. INSTALLED RF TEMPERATURE CONTROLLER AND UPPER SHROUD
5. UNSUCCESSFUL IN MAKING THE NEW PREPROCESSING SOFTWARE CONVERGE CORRECTLY TO REALISTIC VALUES

2.1 OTHER ACTIVITIES

1. RAIN GAUGE CALIBRATION REPORT FINISHED
 - RECOMMEND THAT A SMOOTHING ALGORITHM BE USED RATHER THAN TWO-POINT SLOPES AS COMPUTED WITH ACTSVIEW
2. SUN INTRUSION PREDICTION PROGRAM GENERATED
 - MARYLAND REPORTS SEVERAL HOURS DIFFERENCE BETWEEN PREDICTED AND ACTUAL INTRUSION
 - NEW MEXICO PREDICTIONS ARE CORRECT
 - IF ANYONE WISHES TO SEND ME THEIR ACTUAL INTRUSION TIMES, I WILL TRY TO FIND THE PROBLEM!
3. GLENN FELDHAKES HAS GRADUATED AND MOVED ONTO WORKING FOR LOU IPPOLITO AT STEL.